

CUSTOMER: F0398152  
BATCH #: 023380023  
ZONE #: 10  
BARCODE #: 9611019095150211043667  
PRODUCT NAME: FROST AWAY AEROSOL

ORDER #: 04230  
STICKER #: 023380086

POSTF  
11.3.18.1 V9

MATERIAL SAFETY DATA SHEET: FROST AWAY AEROSOL

Page: 1

(000. 000000- -5195 )

DATE OF ISSUE 8/29/2001	SUPERSEDES 6/27/1997
----------------------------	-------------------------

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms  
N/A

Trade Name & Synonyms  
FROST AWAY AEROSOL

Chemical Family:  
ALCOHOL/GLYCOL BLEND

Formula Mixture --> X

Manufacturer's Name:  
CHEMSEARCH DIV. OF NCH CORP.

Address:  
BOX 152170  
IRVING, TX 75015

Prepared By:  
K Dickinson/Chemist

Product Code Number  
5195

Emergency Phone Number  
800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
METHANOL	FLAM/TOX	200 PPM 1	200 PPM 2	250 PPM 1	67-56-1
1-PROPANOL	FLAM/IRR	200 PPM 1	200 PPM 2	250 PPM 1	71-23-8
PROPYLENE GLYCOL	IRRITANT	N/E 1	N/E 2	N/E	57-55-6
CARBON DIOXIDE	ASPHYX	5000 PPM 1	5000 PPM 2	30000PPM 1	124-38-9

SECTION III - PHYSICAL DATA

Boiling Point (F):	148	Specific Gravity (H2O=1):	0.82
Vapor Pressure (MM HG):	96	Color:	COLORLESS
Vapor Density (Air=1):	>1	Odor:	MILD ALCOHOL
PK @ 100%:	N/E	Clarity:	TRANSPARENT
% Volatile by Volume:	100	Evaporation Rate (BU A/C-1):	<1
H2O Solubility:	COMPLETE	Viscosity:	NONVISCIOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point  
52 F / SETAF LASH

Flammable Limits  
1-PROPANOL/METHANOL

LEL  
2.2%

UEL  
36.0%

Extinguishing Media  
X ---Foam X ---Alcohol Foam X ---CO2 X ---Dry Chemical X ---Water Spray ---Other

Special Fire Fighting Procedures:  
FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:  
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. FLAME EXTENSION IS >36 INCHES. BURNBACK IS 3 INCHES.

Aerosol Level (NFPA 30B): 2

NFPA 704 Hazard Rating (0-Insignificant 1-Slight 2-Moderate 3-High 4-Extreme)  
1 ---Health 4 ---Flammability 0 ---Instability ---Special

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:  
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute (Short Term Exposure)

SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS WITH EFFECTS SIMILAR TO INGESTION.

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING, REDNESS AND A BURNING SENSATION.

INHALATION: AT LOW LEVELS OF CONCENTRATION, INITIAL SYMPTOMS INCLUDE HEADACHE, DIZZINESS, NAUSEA, LOSS OF CONCENTRATION AND IRRITATION. WITH HIGH EXPOSURE LEVELS, CENTRAL NERVOUS SYSTEM DEPRESSION (INTOXICATION) AND CARDIAC ARRHYTHMIA MAY OCCUR.

INGESTION: CONTAINS METHANOL WHICH MAY CAUSE BLINDNESS IF INGESTED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, WEAKNESS, LEG C, NAUSEA, VOMITING, DIARRHEA, BLURRED VISION, PAIN IN ABDOMEN AND LOWER BACK, BLUE COLORING OF SKIN AND NAILS AND IN EXTREME CASES COMA OR DEATH

-Chronic (Long Term Exposure)

BLINDNESS AS A RESULT OF EXPOSURE THROUGH INGESTION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RENAL, HEPATIC, CENTRAL NERVOUS SYSTEM DISEASES AND RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS.

TARGET ORGANS: EYES, CENTRAL NERVOUS SYSTEM, HEART, LIVER, LUNGS, KIDNEYS, PANCREAS AND BRAIN.

USEPA SF



1288550

## SECTION IX - SPECIAL PROTECTION INFORMATION (Continued)

AL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

### Respiratory Protection:

NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

### Eye Protection:

NITRILE RUBBER GLOVES SHOULD BE WORN.

### Hand Protection:

EMERALD GOGGLES SHOULD BE WORN.

### Body Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

## SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X      Outdoors-->      Heated-->      Refrigerated-->  
Minimum Temperature: 0 F      Maximum Temperature: 120 F

### Precautions to be Taken in Handling and Storing:

WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

### Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT.

## SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper & Limit
METHANOL	67-56-1	70

Use ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1980 and 40 CFR part 172.

Please call 1-800-527-9919 for additional information if you are a California customer.

This MSDS is not intended for users in the state of California.

## SECTION XII - REFERENCES

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001.  
OSHA PEL.  
REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2001.  
VENDOR'S MSDS.  
COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE,  
COR: CORROSIVE, CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSLEY-MARTIN CLOSED CUP,  
TAG: TAGLIABUE CLOSED CUP, LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY  
ON CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF  
INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD,  
SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXANT, PNOS: PARTICULATES (INSOLUBLE)- NOT OTHERWISE SPECIFIED, SDT: STANDARD DRAIZE TEST, ORL:  
HUMAN, IHL: INHALATION

INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED  
REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

RESEARCH DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product  
in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage, or disposal of the  
product.